ROBOTIC PACKAGING CONTROLS

Generate secondary packaging from multiple SKU loads from several staging sections. Multiple product stations are fed via forklift. Robots take pallet of finished product advances through the muted light curtain on the conveyor. It will index to the end of the conveyor. The End of arm tool will pick up cases in sequences and take them to the build station.

ROBOTICS PROGRAMMING & COMMISSIONING

Our Kuka robot experts generated an offline programming (OLP) to operate the (2) Kuka robots according to the Sequence of Operations, product, shipping container, and labeling requirements provided. Once developed the programs will be installed into the robots at the system build and tryout site.

Then proceed with modifying the programs as needed, teach and touch-up points and paths, calculate and program offsets (if needed), while testing and troubleshooting the operation of the entire system to assure process design intent and cycle time targets are met.

ROBOT TRAINING

Train operations and maintenance staff on case packing Fanuc Robots. Reverse engineering and documentation of current robot programming architecture, classroom training of current robot pick-and-place programming application, and evaluation of troubleshooting and support techniques for service.

ROBOTIC PALLETIZING SYSTEM

Create order based robotic palletizing system to build pallets of mixed products based on client defined stack. Unique motion profiles and EOAT (end of arm tool) orientation for each pick-and-place operation in addition to activating the required EOAT vacuum zones. The required product is picked from the feed station and placed on the build station in proper orientation, row, column and layer on the pallet until the pallet is complete. Robot returns empty pallet to dispenser.

ROBOTIC PROGRAMMING

Provide programming for multi stack patterns including HMI and PLC integration.

CASE PACKER ROBOT OPTIMIZATION

Optimize case packing robot sequence with the primary goal of reducing cycle time and delays due to dropped product.

DESIGN ◪ ENGINEER ◪ MANAGE